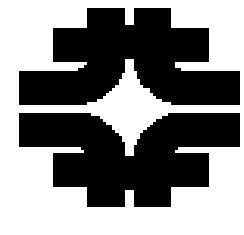
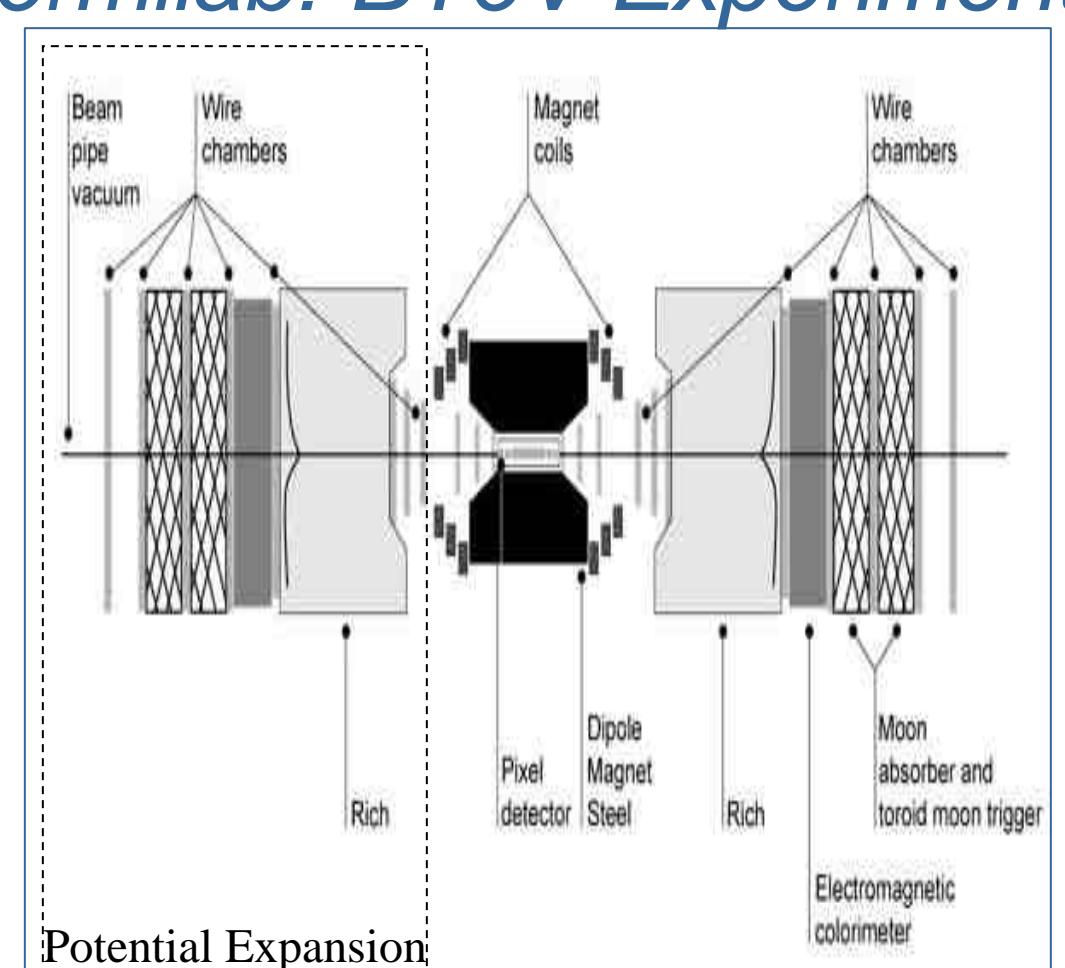




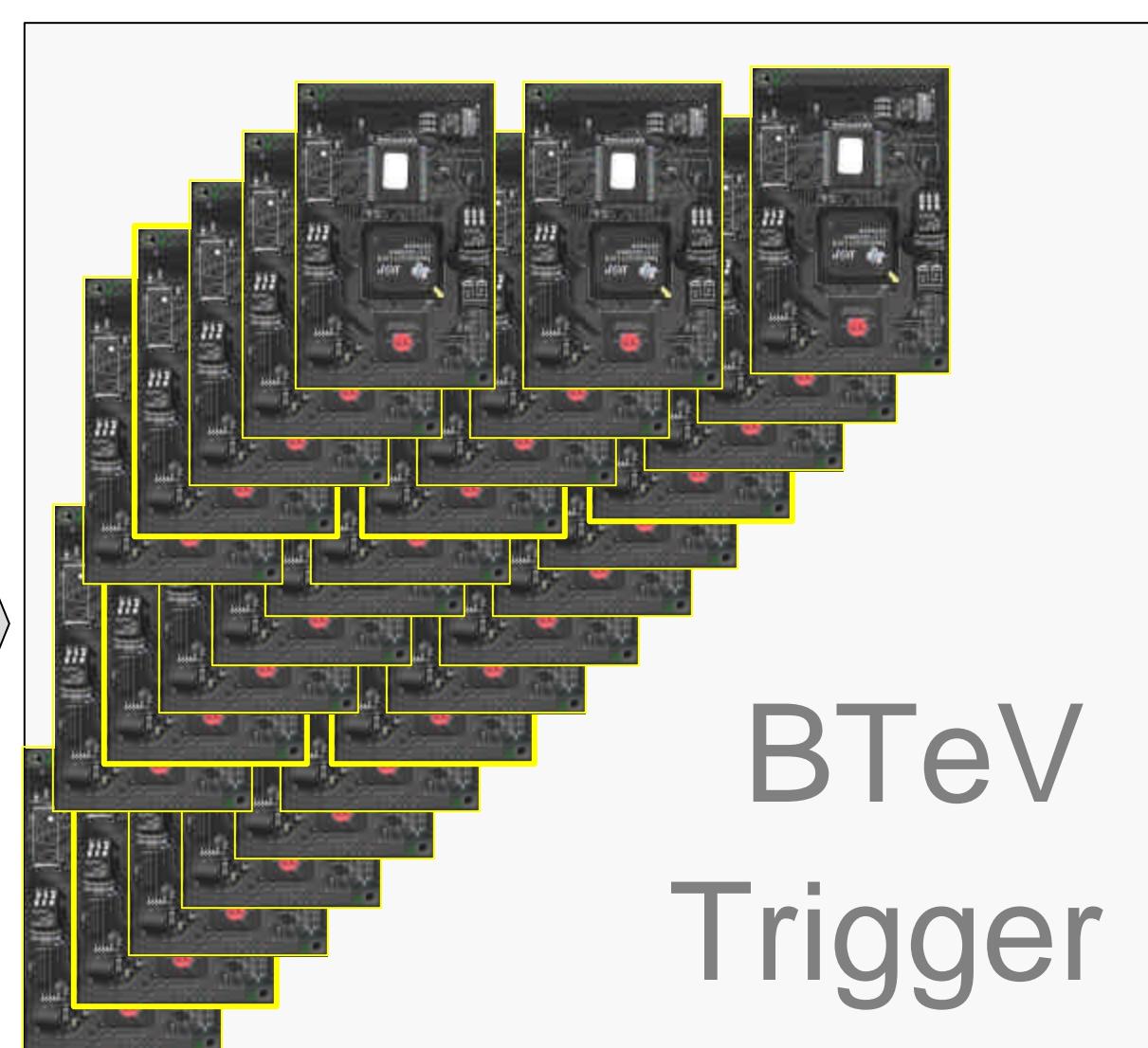
Fault-Adaptive Tools and Architecture for Reliable High Energy Physics Processing



Fermilab: BTeV Experiment



TB/S

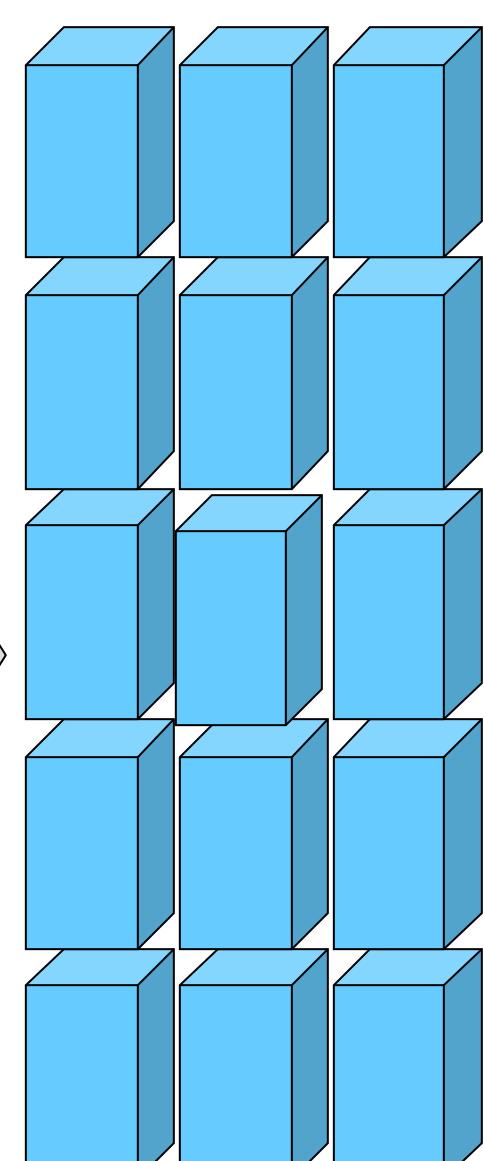


BTeV
Trigger

MB/S

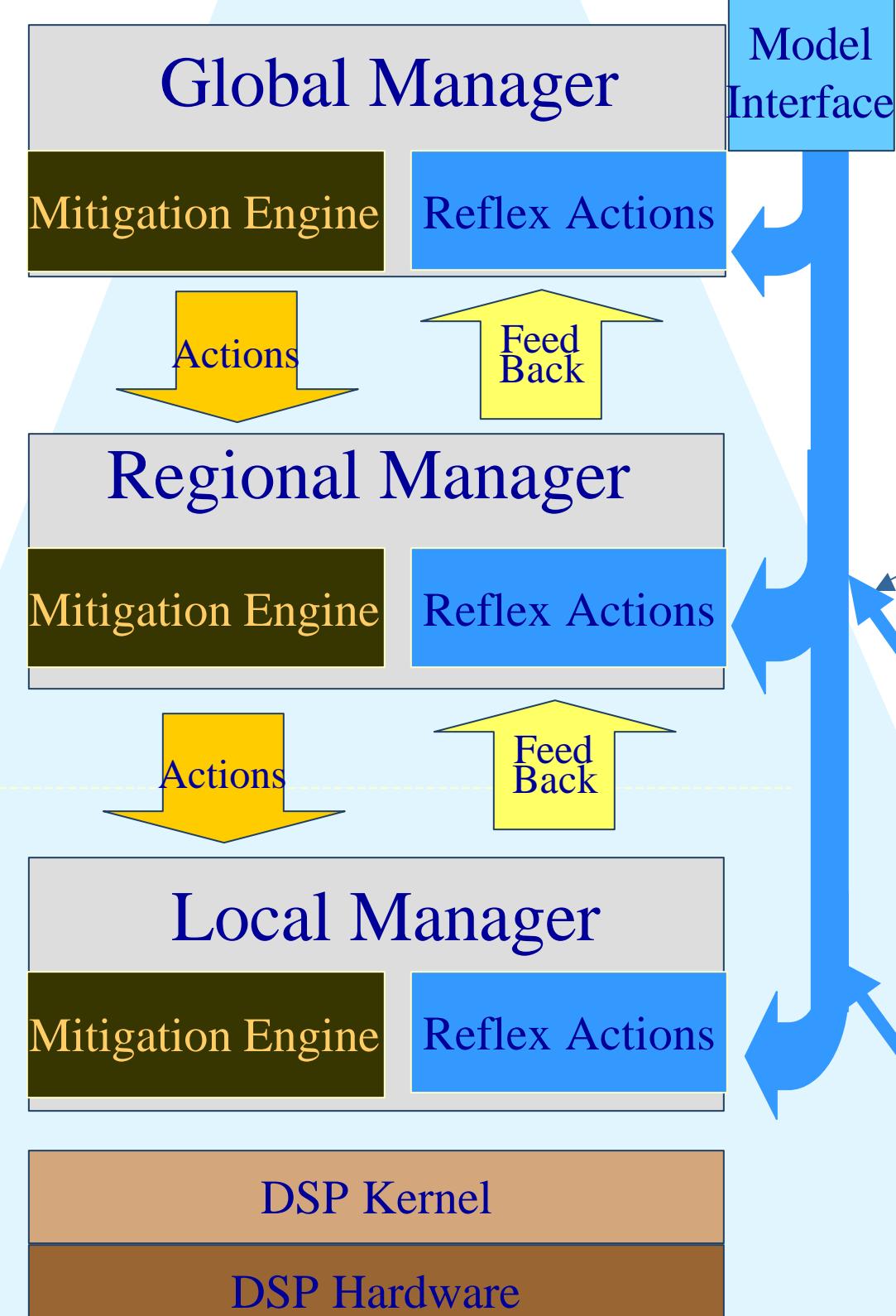


Data
Archive



EHS
Fault-Adaptive
Runtime
Infrastructure

Grid-Based
Processing

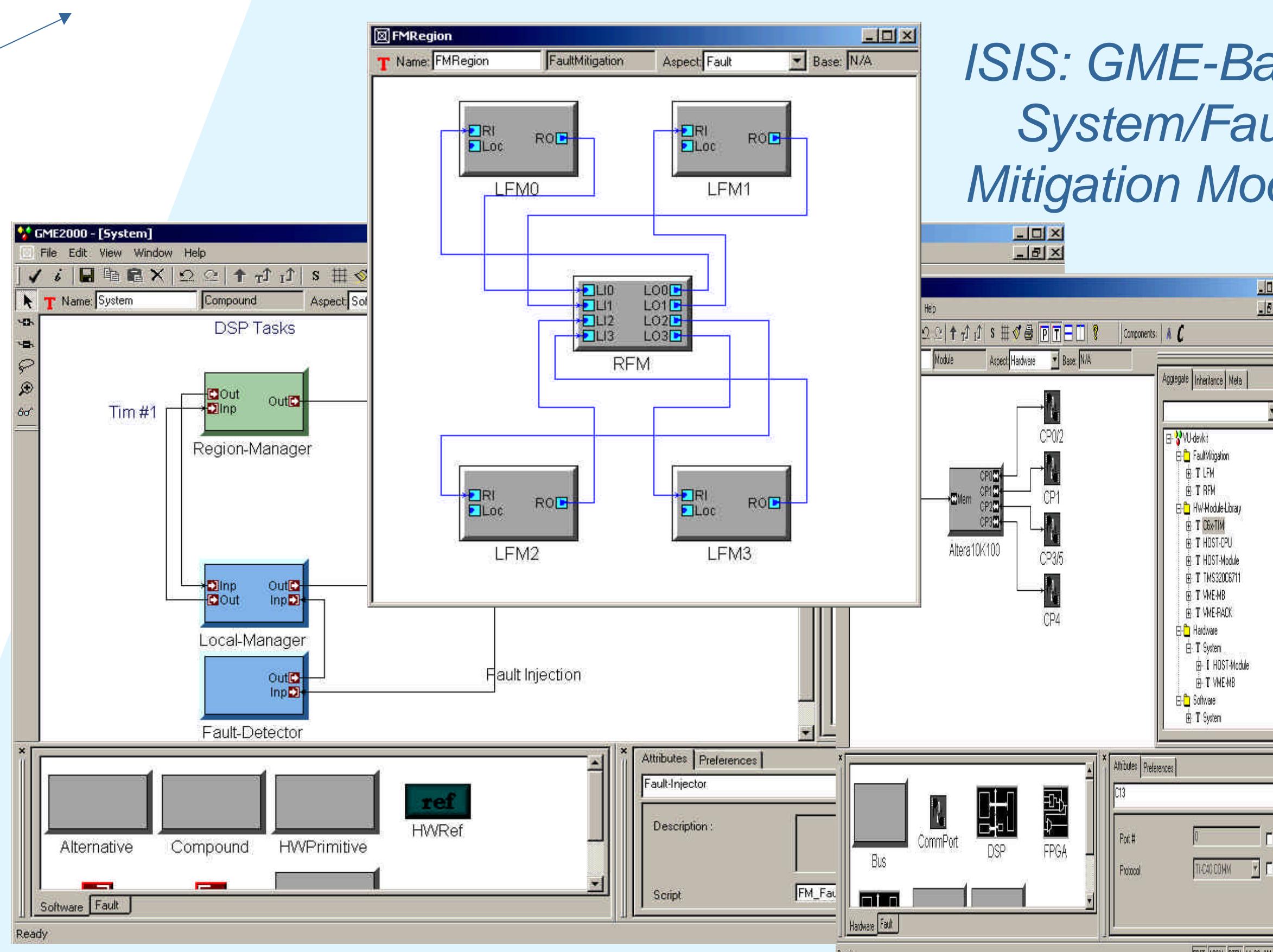


FNAL Tevatron

ISIS/UIUC:
Fault-Adaptive
Infrastructure

UIUC ARMOR
Syracuse,
Pittsburgh VLA

Fault-Adaptive Runtime Environment



EHS
Design
Tools

ISIS: GME-Based
System/Fault
Mitigation Models

Software
Generation

ISIS: Software Generation

Hybrid
Simulation
Environment

NSF Program: ACI0121658

NSF Program Mgr: Xiaodong Zhang

PI: Paul Sheldon, Vanderbilt Physics

Co: Ted Bapty, Sandeep Neema VU ISIS

Co: Joel Butler, Jim Kowalkowski, Fermilab

Co: Michael Haney, Zbigniew Kalbacyk, UIUC

Co: Daniel Mosse, Pittsburgh, Co: Jae Oh, Syracuse

<http://whcdf03.fnal.gov/BTeV-wiki/RealTimeEmbeddedSystems>

